**HN Algebra II** Name:

**Mrs. Britton**

**1.2 Transformations Practice**  Date:

**Identify the transformation from the parent function  to each:**

1.  2. 

3.  4. 

5.  6. 

7.  8. 

**Identify the transformation from the parent function  to each:**

7. **** 8. ****

9. **** 10. ****

11.  12. 

**Write a new function using the transformation description from the parent function:**

13.  shifted left 2 and reflected across the y-axis

14.  shifted down 3 and right 5

15.  shifted up 6 and reflected across the x-axis

16.  shifted right 5 and up 2

17.  shifted left 1, down 7, and reflected across the y-axis

18.  horizontal stretch by a factor of 3, shifted right 1, and up 4

19.  vertical shrink by a factor of , shifted left 6, and down 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

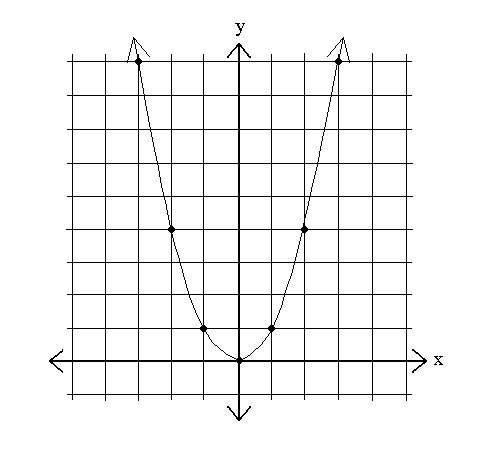
20. vertical stretch by a factor of 4, reflected across the x-axis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

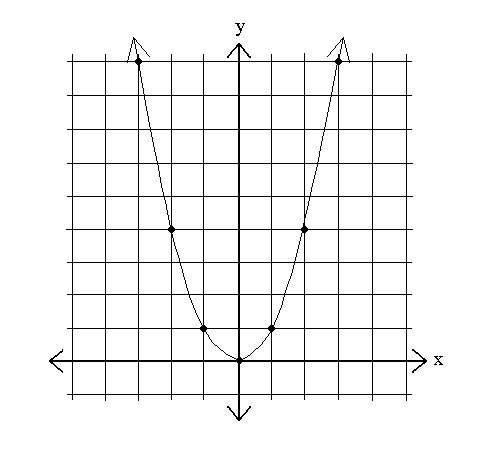
21. horizontal shrink by a factor of  and left 10 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write a new function** *g* **using the transformation description and then plot the given points from the parent function to graph the new function.**

22.  23. 

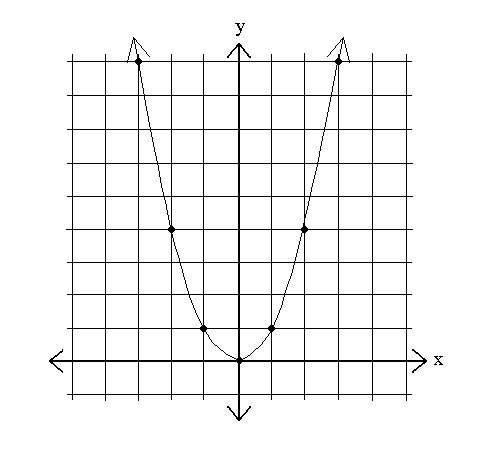
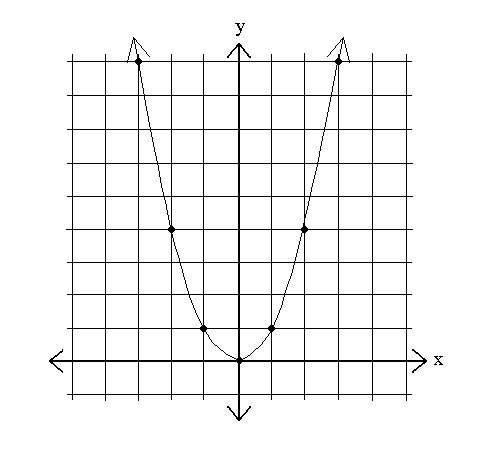
shifted up 2 units shifted left 3 and down 1



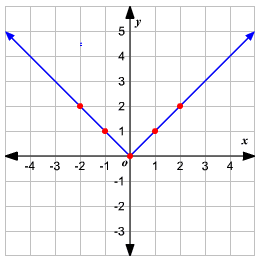
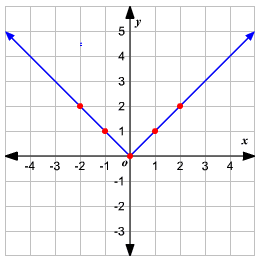


24.  25. 

shifted up 6 and reflected across the x-axis reflected across the y-axis and shifted right 2



26.  27. 

 shifted left 2 and down 3 reflected across the x-axis and shifted right 1

28.  29. 

horizontal stretch by a factor of 2 vertical shrink by a factor of  and shifted right 1

